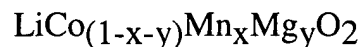


ABSTRACT OF THE DISCLOSURE

A cathode active material for a non-aqueous electrolyte secondary cell having a c-axis length of lattice constant of 14.080 to 14.160 Å, an average particle size of 0.1 to 5.0 μm, and a composition represented by the formula:



where x is a number of 0.008 to 0.18; and y is a number of 0 to 0.18. This cathode active material is capable of maintaining an initial discharge capacity required for secondary cells and shows improved charge/discharge cycle characteristics under high temperature conditions.